

Claims

1. A method of performing multiple polymerase chain reactions in a single vessel, comprising:

priming DNA synthesis on a template in a vessel with at least two sets of primers, wherein the primers are present in the vessel at a predetermined ratio, wherein the ratio is described by:

$$C_A = C_L (L_A \div L_L)^2$$

wherein C_A is the concentration of primers for an amplicon A; wherein C_L is the concentration of primer for the longest amplicon; wherein L_A is the length of the amplicon A; and wherein L_L is the length of the longest amplicon.

2. The method of claim 1 wherein the template is genomic DNA encoding p53.
3. The method of claim 1 wherein the template is a cDNA encoding p53.
4. The method of claim 1 wherein the primers amplify at least 2 exons of p53 selected from the group consisting of exons 2-11.
5. The method of claim 1 wherein the primers amplify at least 4 exons of p53 selected from the group consisting of exons 2-11.
6. The method of claim 1 wherein the primers amplify exons 2-11 of p53.
7. The method of claim 4 wherein the primers are selected from those shown in SEQ ID NO: ID NOS: 1-20.
8. The method of claim 5 wherein the primers are selected from those shown in SEQ ID NO: ID NOS: 1-20.
9. The method of claim 6 wherein the primers are shown in SEQ ID NO: ID NOS: 1-20.
10. The method of claim 9 wherein the primers are present in the following ratios: exon 2 (89.4): exon 3 (26.9): exon 4 (450): exon 5 (245.8): exon 6 (138.3): exon 7 (101.8): exon 8 (193.0): exon 9 (70.8): exon 10 (146.5): exon 11 (177.3).
11. A method of performing multiple polymerase chain reactions in a single vessel, comprising:

priming DNA synthesis on a genomic p53 template in a vessel with ten

Sub
A²_{cont}

Q⁵

20.

Sub 10
Q 3

2 a

Q. 10. *What is the difference between a "strong" and a "weak" acid?*

15

20

9

04

25

22. The mixture of claim 15 which comprises at least 16 primers.

23. The mixture of claim 15 which comprises at least 18 primers.
24. The mixture of claim 15 which comprises at least 20 primers.